CLAIMS

What is claimed is:

1. An apparatus for cleaning a surface within a vessel, the apparatus supported at least partially above a support surface and comprising:

an elongate combustion conduit extending from an upstream end to a downstream end associated with an aperture in a wall of the vessel and positioned to direct a shock wave toward said surface;

- a guide member on the support surface; and
- a plurality of support assemblies supporting the combustion conduit at a plurality of locations along a length of the combustion conduit and engaging the at least one guide member
- 2. The apparatus of claim 1 wherein: the at least one guide member comprises at least one track; and each support has at least one wheel engaging the at least one track.
- 3. The apparatus of claim 2 wherein: the at least one track comprises first and second spaced-apart rails; and each support assembly comprises at least one pair of said at least one wheel being first and second spaced-apart wheels.
- 4. The apparatus of claim 3 wherein:
 each support assembly comprises a trolley having first and second of the at least one
 pair of said at least one wheel.
- 5. The apparatus of claim 4 wherein: the combustion conduit comprises a plurality of separable segments; and each of the segments is supported atop a single associated one of the plurality of trolleys.
- 6. The apparatus of claim 1 further comprising:

 a fuel and oxidizer source coupled to the combustion conduit to deliver a charge to the conduit; and
 - an ignitor positioned to ignite the charge to cause a deflagration-to-detonation

transition for generating the shock wave.

- 7. The apparatus of claim 1 further comprising:
 a resilient member coupling the combustion conduit to the wall.
- 8. A plurality of apparatus of claim 1 positioned at a given level of the vessel.
- 9. The plurality of claim 8 wherein:
 the combustion conduits are oriented parallel to each other.